RA Bill 1st & Final

M. A. R. 57 (Rule 116)
Measurement Book

No. B 183101

Serial No. BR-1F/30-4-14

Name of work Construction of culverts in Main Roads and cross Roads in Moorthinagara and Bhadrappa layout in ward No. 08, Kodichikkanahalli Sub Division.

From ..... To .....

Name of Contractor of nature of Agency Sri C. Navaleraju, Contractor, Devinagara, Bangalore.

Date of commencement of work .....

Date	Full description, etc, of work	Number	Dimensions			Contents	Reference to last Measurement
			Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Work order No: EE/BTP/BBMP/E-PHT/659/2013-14 Dated:						
	Work code no: 008-12-000061						
	Est cost: Rs. 10.00 lakhs						
	1) Earth work excavation by manual means in hard soil involving an average horizontal lead upto 2 m and an average lift upto 0.5 m excavated surface as complete.						
	Culverts.	1	6.00	2.00	1.05	12.60	
		1	6.10	2.00	1.05	12.81	
		1	5.80	2.00	1.05	12.18	
		1	6.20	2.00	1.05	13.02	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Re Me
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
		1	6.00	2.00	1.05	12.60	
		1	6.20	2.00	1.05	13.02	
		1	6.40	2.00	1.05	13.44	
		1	5.80	2.00	1.05	12.18	
		1	6.20	2.00	1.05	13.02	
		1	6.00	2.00	1.05	12.60	
		1	5.80	2.00	1.05	12.35	
		1	5.50	2.00	1.05	11.55	
		1	6.00	2.00	1.05	12.60	
				Total		164.01 cu	
				QTY Limited to		163.80 cu	
				@		85.00/cu	13
	2) providing and laying in position plain cement concrete (mix 1:2:4						

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No. B 183102

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions: Length	Dimensions: Breadth	Dimensions: Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	with opc cement @ 180 Kgs mix 40mm aggl deck size breached granite metal course aggregate as complete.						
		4	6.00	1.80	0.15	6.48	
		1	6.10	1.80	0.15	1.65	
		2	5.80	1.80	0.15	3.13	
		3	6.20	1.80	0.15	5.02	
		1	6.40	1.80	0.15	1.78	
		1	5.20	1.80	0.15	1.59	
		1	5.50	1.80	0.15	1.49	
				Total		21.06 Cum	
					@	4200-00/Cum	88452=00

Reference to last Measurement 8

6/8/14

13=00

Cs/Re
Dr
10/3/14

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
3)	providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:6 ratio & stone chips dressed in courses not less than 15 cm high &c complete.						
		4x2	6.00	0.60	0.90	25.92	
		2	6.10	0.60	0.90	6.59	
		2x2	5.80	0.60	0.90	12.53	
		3x2	6.20	0.60	0.90	20.08	
		2	6.40	0.60	0.90	6.91	
		2	5.90	0.60	0.90	6.37	
		2	5.50	0.60	0.90	5.94	
				Total		84.24 cm	
					@	4250 /cm	
4)	providing rubed pointing to courses stone masonry with cement mortar						

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Measurement Book

No. B 183103

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Reference to last Measurement 8	Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
4/3/14		deep cutg. raking joints to cost & materials at complete.	depth & 20mm		nicely	timing including		
			4×2	6.00	-	0.90	43.20	
			2	6.10	-	0.90	10.98	
			2×2	5.80	-	0.90	20.88	
			3×2	6.20	-	0.90	33.48	
			2	6.40	-	0.90	11.52	
			2	5.90	-	0.90	10.62	
			2	5.50	-	0.90	9.90	
120=00					Total		140.40sq	
20mm						@	75.00/sq	10530=00

cancelled

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
5)	Providing and laying in position Plain cement concrete 1:2:4 Mix M 15 with cement @ 240 Kg with 20mm and down size crushed granite metal coarse aggregate @ 0.878 cum at complete coping						
		4x2	6.00	0.60	0.10	2.88	
		2	6.10	0.60	0.10	0.73	
		2x2	5.80	0.60	0.10	1.39	
		3x2	6.20	0.60	0.10	2.23	
		2	6.40	0.60	0.10	0.77	
		2	5.90	0.60	0.10	0.71	
		2	5.50	0.60	0.10	0.72	
				TOTAL		9.36 cum	
					@	4400/cum	41184=00
6)	Providing and removing centering shuttering striking propping etc and removal & form work for vertical surface such as walls at any thickness including attached						

Serial No. .....
Name of work .....
Name of Contractor of
Date of commencemen

Date	Full descript
1	2
	Plasters col
	Culver
	covering

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No. B 183104

Reference to last Measurement 8

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Piers columns, bulkheads plinth & complete						
	Culvert Bottom covering	4	6.00	0.60	-	14.40	
		1	6.10	0.60	-	2.70	
		2	5.80	0.60	-	6.96	
		3	6.20	0.60	-	11.16	
		1	6.40	0.60	-	3.84	
		1	5.90	0.60	-	3.54	
		1	5.50	0.60	-	3.30	
	covering Slab sides	2x4	6.00	-	0.25	12.00	
		2	6.10	-	0.25	3.05	
		2x2	5.80	-	0.25	5.80	
		3x2	6.20	-	0.25	9.30	

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		2	6.40	-	0.25	3.20	
		2	5.90	-	0.25	2.95	
		2	5.50	-	0.25	2.75	
		13x2	1.80	-	0.25	11.70	
					Total	97.50 sq m	
					@	271.20/sq m	26442=00
7)	providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kg with 20 mm and down size graded granite metal course aggregates @ 0.878 cum etc complete.						
		4	6.00	1.80	0.25	10.80	
		1	6.10	1.80	0.25	2.75	
		2	5.80	1.80	0.25	5.22	
		3	6.20	1.80	0.25	8.37	

Serial No. ...
Name of wor
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Date of comr

Date 1	
8)	Provic... beneath ... laying

183105

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No. B

Reference to last Measurement 8

Serial No. ..... From ..... To .....

Name of work .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions: Length	Dimensions: Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
		1	6.40	1.80	0.25	2.88	
		1	5.80	1.80	0.25	2.61	
		1	5.50	1.80	0.25	2.48	
					Total	35.10 Cum	
					@	5500.00/Cum	193050=00
	8) Providing TMT Steel reinforcement for RCC work including straightening, cutting bending hooking placing in position lapping and/or welding wherever required tying with binding wire and anchoring etc complete. As per premeasurement Recorded in Field Page No:						

16442=00

for mix
granite

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	183191 - 192	of this MB is				31.59 Qtl	
					@	7400.00/Qtl	
							233766.00
					Total		965367.00
	certificate:						
	certified that the above work done is satisfactorily.						

Serial No. .....
Name of work .....
Name of Contractor
Date of commenceme

Date	Full desc
1	

Shanthini Nelson Sekar

26/4/14

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Measurement Book

No. B 183106

Reference to last Measurement 8

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions		Depth	Contents	Reference to last Measurement
			Length	Breadth			
1	2	3	4	5	6	7	8
13/7/66	Sketch showing the work done upto:						
15/7/66							

26/7/66

AE

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	7
	965360=00 118725=00 846585=00		IT - 9654 VAT - 38614 [illegible] - 53[illegible] [illegible] 9654 [illegible] 965- [illegible] - 6[illegible] Total - 118725=00 14/3			

Contents	Reference to last Measurement
7	

for measurement:

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Code no. 008-12-000061

No. B 183191

Name of work: Construction of culvert in Main Roads and CRMTO Roads in Maruthinapara and
From Bheerappa Layout in ward no. 08 Kozhikkolli sub division.
Name of Agency: Malavalli Contractor, Bangalore.

Number	Dimensions: Length	Breadth	Depth	Contents	Reference to last Measurement
3	4	5	6	7	8
					RCC work including straightening, cutting, bending and/or welding wherever required tying with the adjoining bars complete.
	1·80	1·80 mtrs			
	3·30	3·30 mtrs			
	5·00	5·00 mtrs			

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Conte
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	7
	16 mm ϕ	2×24	1·80	86·40 mt		
	crank Rods	2×24	2·20	105·60 mt		
	12 mm ϕ	2×16	5·80	185·60 mt		
	16 mm ϕ	3×32	1·80	172·80 mt		
	crank Rods	3×32	2·20	211·20 mt		
	12 mm ϕ	3×16	6·20	297·60 mt		
	16 mm ϕ	26	6·80	46·80 mt		
	crank Rods	26	2·20	57·20 mt		
	12 mm ϕ	16	6·40	102·40 mt		
	16 mm ϕ	22	1·80	39·60 mt		
	crank Rods	22	2·20	48·40 mt		
	12 mm ϕ	16	5·80	92·80 mt		
	16 mm ϕ	24	1·80	43·20 mt		

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Name of Agency ..... From ..... To .....

Nature of work .....

Number 3	Dimensions: Length 4	Dimensions: Breadth 5	Dimensions: Depth 6	Contents 7	Reference to last Measurement 8
3 No ✓	2.20 ✓	52.80 ✓			
1 No ✓	5.50 ✓	88.00 ✓			
		AG SFR 2.65			
			2072.96 Kgs		
			1112.10 Kgs		
			2185.10 Kgs		
			or		
			31.85 qtl		

cafe
Dof 18/14